AEGIS Training and Readiness Center

Detachment Training Catalog

June 2003

Change 7
05 Jun 2003

Cover photo: "Against a black sky on a stormy sea, USS HUÉ CITY (CG 66) shoots to kill an enemy yet unseen by own ship sensors. CEC is a true force multiplier."

LCDR Stephen Evans
Executive Officer
USS HUE CITY (CG 66)

RECORD OF CHANGES

CHANGE NO.	DATE OF CHANGE	DATE ENTERED	ENTERED BY
CH1. CCMM Changes, ATSG to ATRCD and Admin Chgs	4/23/98	5/17/98	kcj
CH2. CCMM Changes, Additional courses	7/12/99	7/12/99	jag
CH3. CSMM Changes, Additional courses	8/15/00	8/15/00	jag
CH4. Administrative Changes.	8/15/01	8/15/01	len
CH5. CCMM, Admin and Additional Info	10/15/02	10/15/02	len
CH6. Delete outdated Spec Briefs, Admin Chg	12/03/02	12/03/02	len
CH7. Updated Responsive Training	06/05/03	06/05/03	rlt

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SECTION 1

INTRODUCTION

INTRODUCTION

I. Afloat Training Organization (ATO) The ATO consolidates the basic level shipboard training effort into one organization under COMSURFLANT/COMSURFPAC, capable of providing "one-stop" training services to the TYCOM/ISIC/CO. The Afloat Training Group (ATG) is the central scheduling authority for afloat training during the basic phase. The AEGIS Training and Readiness Center Detachment (ATRCD) will coordinate afloat training schedules for each unit's Command Assessment of Readiness Training II (CART II), Tailored Ship Training Availability I/II/III (TSTA I/II/III) and Final Evaluation Period (FEP) and is also responsible for maintaining training standardization between fleets.

II. AEGIS Training and Readiness Center Detachment Overview

1. Mission Provide Combat System Casualty Control Training to new construction and commissioned CG-47/DDG-51 class ships in accordance with Combat System Operational Sequencing System (CSOSS) instructions. Train CG-47/DDG-51 class Combat System Training Teams (CSTT) to prepare, conduct and evaluate self-training packages utilizing the ship's embedded training devices in support of "Inside the Lifelines" training concept. Provide tactical/technical training support for Combat System Computer program upgrade deliveries to CG-47/DDG-51 class ships as required in support of battle readiness requirements. Provide direct waterfront liaison and feedback with AEGIS Training and Readiness Center (ATRC), Dahlgren on CG-47/DDG-51 class ship training needs.

2. General ATRC is the activity responsible for AEGIS Combat System training. The AEGIS Training and Readiness Center Detachments (ATRCD), located in Wallops Island, VA; Norfolk, VA; Mayport, FL; San Diego, CA; Pearl Harbor, HI; and Yokosuka, Japan, are the components of the ATRC and assist in accomplishing the overall AEGIS training and support mission. Training conducted by the ATRCD is normal "pipeline training" for PRECOM Units and refresher training for commissioned units. The Officer in Charge (OIC) of the ATRCD reports to the Commanding Officer, ATRC; and is accountable for, and will abide by all training and administrative requirements as delineated in ATRC/PMS 400 notices, instructions and directives.

a. The OICs of the ATRCDs are assigned additional duties and report directly to Commander Afloat Training Group (ATG), LANT/PAC/MIDPAC/WESTPAC for matters regarding AEGIS platform training and readiness while supporting ATG directed evolutions. Upon request, the OIC provides the necessary personnel to support and participate in ATG LANT/PAC/MIDPAC/WESTPAC working groups to improve processes, standardize between ATRCDs to infuse training expertise.

b. ATRCDs provide assistance to ATG LANT/PAC/MIDPAC/WESTPAC as a source of AEGIS expertise to support CG-47/DDG-51 readiness and training issues. The ATRCDs assist ATG LANT/PAC/MIDPAC/WESTPAC directed Combat Systems evolutions to include CART II, TSTA I, II, III AND FEPs. ATRCDs provide support and/or conduct training as requested and as listed in the current ATRCD approved course catalog. ATRC, will be responsible for providing TAD travel and per diem funds for ATRCD personnel for all training missions except CART IIs and FEPs. ATG LANT/PAC/MIDPAC/WESTPAC will provide support for CART II and FEP.

c. Any organization or activity may request training assistance from an ATRCD. Scheduling authority for training occurring outside the TSTA training windows for the requesting ship is accomplished via the OIC, ATRCD. When deemed necessary, the OIC, ATRCD may request personnel augmentation from ATRC or its activities to accomplish scheduled training, evolutions, or assessment evolutions. Schedule priorities due to conflicts which exceed manpower availability will be a function of Commanding Officer, ATRC. Phone numbers and Message Plain Language Addresses for the ATRCDs are listed in Appendix A of this document.

SECTION 2

COURSES OF INSTRUCTION

Course Title: AEGIS TRAINING SUPERVISOR (TRASUP) MK 29

CIN/SBIN: S-221-0031 Course Security: SECRET

Location: Exportable (Inport) Length: 5 Days

Periodicity: During Overhaul/SRA or prior to CART II/TSTA, and as requested.

Purpose: Provides selected CIC personnel the knowledge and skills required to perform the duties of a Training Supervisor.

Audience: Selected enlisted CIC Team members (source ratings OS, FC, EW, STG) (E4-E9) or selected Officers (maximum class capacity: 6)

Scope: Provides the trainee with a general description of the AEGIS Combat Training System (ACTS). The physical, functional, interface, and operational description of ACTS and OBT will be discussed. The course also includes the practical application to support the normal operations of ACTS. Provides OBT and EW interface training.

Prerequisites:
1. AEGIS Console experience.

Support Requirements:
1. Classroom with overhead projector/PowerPoint projection system and VAP. (Day 1)
2. Dedicated system time: SPY, WCS, C&D, OBT, AWCS, SQQ-89, SLQ-32, SIMAS in addition to ACTS tapes, and ECGs. (Days 2, 3, 4 & 5)
3. Student roster to include name, rate/rank, SSN and clearance data.

Topical Outline:

PART T3400/1 AEGIS COMBAT TRAINING SYSTEM (ACTS) B/L 1.4
Section 1. Introduction to and Basic Operation of ACTS
Topic 1. General, Functional, and Documentation Description of ACTS
Topic 2. Physical Description of ACTS
Topic 3. Interface Description of ACTS
Topic 4. Operational Description of ACTS
Topic 5. Basic Operation of ACTS

PART T3400/2 AEGIS COMBAT TRAINING SYSTEM (ACTS) B/L 2.10/3.3
Section 1. Introduction to and Basic Operation of ACTS
Topic 1. General, Operational, and Documentation Description of ACTS
Topic 2. Physical and Functional Description of ACTS
Topic 3. Interface Description of ACTS
Topic 4. Operational Description of ACTS
Topic 5. Basic Operation of ACTS

Course Title: AEGIS TRAINING SUPERVISOR (TRASUP) MK 29 (cont'd)

PART T3400/3 AEGIS COMBAT TRAINING SYSTEM (ACTS) B/L 5.3, 3A
Section 1. Introduction to and Basic Operation of ACTS
Topic 1. General, Operational, and Documentation Description of ACTS
Topic 2. Physical Description of ACTS
Topic 3. Interface Description of ACTS
Topic 4. Operational Description of ACTS
Topic 5. Basic Operation of ACTS

CCMM= ATRCD Wallops Island

Course Title: AEGIS COMBAT SYSTEMS MAINTENANCE TEAM (CSMT)

CIN/SBIN: S-121-0484 Course Security: SECRET

Location: Exportable (Inport) Length: 5 Days

Periodicity: During Overhaul/SRA or prior to CART II/TSTA, and as requested.

Purpose: Provides an AEGIS CSMT/SERT with the knowledge to effectively assist the Combat Systems Test Officer/Combat System Maintenance Manager in implementing a Combat System Maintenance program and resolving interface problems as they relate to the AEGIS Combat System.

Audience: Ship's CSMT/SERT members (minimum class capacity: 6, maximum class capacity: 12)

Scope: Familiarizes the maintenance team members with the technical characteristics, functional relationships, operational capabilities and maintenance requirements of the AEGIS Combat Systems. Includes practical application in fault detection and isolation.

Prerequisites: Senior technician or supervisor designated as a member of the AEGIS CSMT/SERT.

Support Requirements:
1. Classroom with overhead projector/PowerPoint projection system, VAP, and television/VCR(VHS).
2. Classified material storage for overnight storage of publications.
3. Student roster to include name, rate/rank, SSN, and clearance data.

Note: Topic times may vary due to ship's commitments.

Topical Outline:

PART T0012/1	AEGIS COMBAT SYSTEMS MANAGEMENT - VOL. 1 (Baseline 1)
Section 1.	AEGIS Combat Systems Management
Topic 1.	Knowledge of Documentation
Topic 2.	Knowledge of CSOSS
Topic 3.	General Description of Ticonderoga Class
Topic 4.	Knowledge of the AEGIS Combat System
Topic 5.	Knowledge and Comprehension of Detection
Topic 6.	Knowledge and Comprehension of Control
Topic 7.	Knowledge and Comprehension of Engagement
Topic 8.	Knowledge and Comprehension of Support
Topic 9.	Knowledge and Comprehension of Support Auxiliaries
Topic 10.	Knowledge of Readiness Assessment and Alignment
Topic 11.	Knowledge and Comprehension of Element Level Testing
PART T0012/2	AEGIS COMBAT SYSTEMS MANAGEMENT - VOL. 2 (Baseline 2)
Section 1	AEGIS Combat Systems Management
Topic 1.	Knowledge of Documentation
Topic 2.	Knowledge of CSOSS
Topic 3.	General Description of Ticonderoga Class

Course Title: AEGIS COMBAT SYSTEMS MAINTENANCE TEAM (cont'd)

Topic 4.	Knowledge of the AEGIS Combat System
Topic 5.	Knowledge and Comprehension of Detection
Topic 6.	Knowledge and Comprehension of Control
Topic 7.	Knowledge and Comprehension of Engagement
Topic 8.	Knowledge and Comprehension of Support
Topic 9.	Knowledge and Comprehension of Support Auxiliaries
Topic 10.	Knowledge of Readiness Assessment and Alignment
Topic 11.	Knowledge and Comprehension of Element Level Testing

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PART T0012/3	AEGIS COMBAT SYSTEMS MANAGEMENT - VOL. 3 (Baseline 3/3A)
Section 1.	AEGIS Combat Systems Management
Topic 1.	Knowledge of Documentation
Topic 2.	Knowledge of CSOSS
Topic 3.	General Description of Ticonderoga Class
Topic 4.	Knowledge of the AEGIS Combat System
Topic 5.	Knowledge and Comprehension of Detection
Topic 6.	Knowledge and Comprehension of Control
Topic 7.	Knowledge and Comprehension of Engagement
Topic 8.	Knowledge and Comprehension of Support
Topic 9.	Knowledge and Comprehension of Support Auxiliaries
Topic 10.	Knowledge of Readiness Assessment and Alignment
Topic 11.	Knowledge and Comprehension of Element Level Testing

PART T0012/4	AEGIS COMBAT SYSTEMS MANAGEMENT - VOL. 4 (Baseline 5 CG)
Section 1.	AEGIS Combat Systems Management
Topic 1.	Knowledge of Documentation
Topic 2.	Knowledge of CSOSS
Topic 3.	General Description of Ticonderoga Class
Topic 4.	Knowledge of the AEGIS Combat System
Topic 5.	Knowledge and Comprehension of Detection
Topic 6.	Knowledge and Comprehension of Control
Topic 7.	Knowledge and Comprehension of Engagement
Topic 8.	Knowledge and Comprehension of Support
Topic 9.	Knowledge and Comprehension of Support Auxiliaries
Topic 10.	Knowledge of Readiness Assessment and Alignment
Topic 11.	Knowledge and Comprehension of Element Level Testing

PART T0012/5	AEGIS COMBAT SYSTEMS MANAGEMENT - VOL. 5 (Baseline 5 DDG)
Section 1.	AEGIS Combat Systems Management
Topic 1.	Knowledge of Documentation
Topic 2.	Knowledge of CSOSS
Topic 3.	General Description of Arleigh Burke Class
Topic 4.	Knowledge of the AEGIS Combat System

Course Title: AEGIS COMBAT SYSTEMS MAINTENANCE TEAM (cont'd)

Topic 5.	Knowledge and Comprehension of Detection
Topic 6.	Knowledge and Comprehension of Control
Topic 7.	Knowledge and Comprehension of Engagement
Topic 8.	Knowledge and Comprehension of Support
Topic 9.	Knowledge and Comprehension of Support Auxiliaries
Topic 10.	Knowledge of Readiness Assessment and Alignment
Topic 11.	Knowledge and Comprehension of Element Level Testing
PART T0012/6	AEGIS COMBAT SYSTEMS MANAGEMENT - VOL. 6
Section 1.	AEGIS Combat Systems Management Vol 6 (Baseline 6PI)
Topic 1.	Knowledge of Documentation
Topic 2.	Knowledge of CSOSS
Topic 3.	General Description of Ticonderoga Class Cruiser and Arleigh Burke Class Destroyer
Topic 4.	Knowledge of the AEGIS Combat System
Topic 5.	Knowledge and Comprehension of Detection
Topic 6.	Knowledge and Comprehension of Control
Topic 7.	Knowledge and Comprehension of Engagement
Topic 8.	Knowledge and Comprehension of Support
Topic 9.	Knowledge and Comprehension of Support Auxiliaries
Topic 10.	Knowledge of Readiness Assessment and Alignment
Topic 11.	Knowledge and Comprehension of Element Level Testing
Section 2.	AEGIS Combat Systems Management Vol 6 (Baseline 6PIII)
Topic 1.	Knowledge of Documentation
Topic 2.	Knowledge of CSOSS
Topic 3.	General Description of the Arleigh Burke Class
Topic 4.	Knowledge of the AEGIS Combat System
Topic 5.	Knowledge and Comprehension of Detection
Topic 6.	Knowledge and Comprehension of Control
Topic 7.	Knowledge and Comprehension of Engagement
Topic 8.	Knowledge and Comprehension of Support
Topic 9.	Knowledge and Comprehension of Support Auxiliaries
Topic 10.	Knowledge of Readiness Assessment and Alignment
Topic 11.	Knowledge and Comprehension of Element Level Testing

CCMM = ATRCD Norfolk

Course Title: AEGIS COMBAT INFORMATION CENTER TRAINING TEAM (CICTT) (SHIPBOARD)

CIN/SBIN: S-221-0028 Course Security: SECRET

Location: Exportable (Inport) Length: 5 Days

Periodicity: Determined by ship's force, as often as necessary. Should be conducted prior to CART II or during early TSTA phase of training. CICTT may also be conducted during pre-com, post ROH/RAV, or when there is a significant turnover of Combat Information Center (CIC) watchstanders.

Purpose: Provide the knowledge and skills required to enable all members of the CIC team to perform the duties and responsibilities of their assigned stations while operating in a multi-warfare environment.

Audience: All Condition III CIC watchstanders (OS, FC, ST, EW, IS, and Officer).

Scope: Course will provide the CIC watch team with the background knowledge in a classroom environment reinforced by Detect to Engage labs and ACTS scenarios.

Prerequisites: Basic CIC console familiarization.

Support Requirements:
1. Classroom with overhead projector/PowerPoint projection system and VAP. (Days 1 & 2)
2. Dedicated system time: SPY, WCS, C&D, ACTS, SLQ-32, SQQ-89, ASWCS, BFTT, BEWT, and EWOBT
3. ACTS scenario tapes and ECG(s). (Days 2 - 5)
4. Student roster to include name, rate/rank, SSN and clearance data.

Topical Outline:

PART T0044/1 AEGIS COMBAT INFORMATION CENTER TRAINING TEAM (CICTT) (SHIPBOARD) BASELINE 1.4

Section 1. CICTT (Shipboard)
Topic 1. AEGIS Combat System (ACS) Overview
Topic 2. Identification Friend or Foe (IFF) Management
Topic 3. Data Links Overview
Topic 4. AEGIS Doctrine Fundamentals
Topic 5. Detect To Engage Fundamentals
Section 2. CICTT (Shipboard)
Topic 1. Performance of CICTT (Shipboard)

Course Title: AEGIS COMBAT INFORMATION CENTER TRAINING TEAM (CICTT) (SHIPBOARD) (cont'd)

PART T0044/2 COMBAT INFORMATION CENTER TRAINING TEAM (CICTT) (SHIPBOARD) BASELINE 2.10
Section 1. CICTT (Shipboard)
Topic 1. AEGIS Combat System (ACS) Overview
Topic 2. Identification Friend or Foe (IFF) Management
Topic 3. Data Links Overview
Topic 4. AEGIS Doctrine Fundamentals
Topic 5. Detect To Engage Fundamentals
Section 2. CICTT (Shipboard)
Topic 1. Performance of CICTT (Shipboard)

PART T0044/3 COMBAT INFORMATION CENTER TRAINING TEAM (CICTT) (SHIPBOARD) BASELINE 3A/5.3
Section 1. CICTT (Shipboard)
Topic 1. AEGIS Combat System (ACS) Overview
Topic 2. Identification Friend or Foe (IFF) Management
Topic 3. Data Links Overview
Topic 4. AEGIS Doctrine Fundamentals
Topic 5. Detect To Engage Fundamentals
Section 2. CICTT (Shipboard)
Topic 1. Performance of CICTT (Shipboard)

PART T0044/4 COMBAT INFORMATION CENTER TRAINING TEAM (CICTT) (SHIPBOARD) BASELINE 6.1
Section 1. CICTT (Shipboard)
Topic 1. AEGIS Combat System (ACS) Overview
Topic 2. Identification Friend or Foe (IFF) Management
Topic 3. Data Links Overview
Topic 4. AEGIS Doctrine Fundamentals
Topic 5. Detect To Engage Fundamentals
Section 2. CICTT (Shipboard)
Topic 1. Performance of CICTT (Shipboard)

PART T0044/5 COMBAT INFORMATION CENTER TRAINING TEAM (CICTT) (SHIPBOARD) BASELINE 6.3
Section 1. CICTT (Shipboard)
Topic 1. AEGIS Combat System (ACS) Overview
Topic 2. Identification Friend or Foe (IFF) Management
Topic 3. Data Links Overview
Topic 4. AEGIS Doctrine Fundamentals
Topic 5. Detect To Engage Fundamentals
Section 2. CICTT (Shipboard)
Topic 1. Performance of CICTT (Shipboard)

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CCMM = ATRCD San Diego

Course Title: BASIC MULTI-TADIL TEAM TRAINING (BMTT)

CIN/SBIN: S-221-1290 Course Security: UNCLASSIFIED

Location: Exportable (Inport) Length: 5 Days

Periodicity: During TSTA, and as requested.

Purpose: To provide technicians, operators and support personnel with the knowledge and skills for effective execution of data-link operations.

Audience: IT, ET, FC, 08

Scope: This course trains all applicable personnel the team concept of Basic Multi-TADIL communications utilizing existing publications, troubleshooting techniques and common shipboard equipment.

Prerequisites: None

Support Requirements:
1. Classroom with overhead projector/PowerPoint projection system and VAP. (Days 1 - 3)
2. Dedicated system time: Ship-coordinated live TADIL support. (Days 3 - 5)
3. Student roster to include name, rate/rank and SSN.

Topical Outline:

PART T0035	TACTICAL DIGITAL INFORMATION LINK (TADIL) C SYSTEM
Section 1.	Introduction to TADIL C System
Topic 1.	General, Physical, and Documentation Description of TADIL C System
Topic 2.	Functional Description of TADIL C System
Topic 3.	Interface Description of TADIL C System
Topic 4.	Operational Description of TADIL C System
Section 2.	Operation of TADIL C System
Topic 1	Operation of TADIL C System
PART T0036	TACTICAL DIGITAL INFORMATION LINK (TADIL) A SYSTEM
Section 1.	Introduction to TADIL A System
Topic 1.	General, Physical, and Documentation Description of TADIL A System
Topic 2.	Functional Description of TADIL A System
Topic 3.	Interface Description of TADIL A System
Topic 4.	Operational Description of TADIL A System
Section 2.	Operation of TADIL A System
Topic 1	Operation of TADIL A System

Course Title: BASIC MULTI-TADIL TEAM TRAINING (BMTT) (cont'd)

PART T0037	TACTICAL DIGITAL INFORMATION LINK (TADIL) J SYSTEM
Section 1.	Introduction to TADIL J System
Topic 1.	General, Physical, and Documentation Description of TADIL J System
Topic 2.	Functional Description of TADIL J System
Topic 3.	Interface Description of TADIL J System
Topic 4.	Operational Description of TADIL J System
Section 2.	Operation of TADIL J System
Topic 1	Operation of TADIL J System

CCMM = ATRCD Norfolk

Course Title: BATTLE GROUP MULTI-TADIL TEAM TRAINING (BGMTT)

CIN/SBIN: S-221-4001 Course Security: SECRET

Location: Exportable (Inport) Length: 3 Days Inport, 3-5 Days U/W

Periodicity: Inport prior to COMPTUEX, U/W prior to JTFEX

Purpose: To train Battle Group TADIL managers and tactical warfighters to effectively design, employ and manage TADIL architectures.

Audience: Battle Group Staffs, CVW, and shipboard TADIL Management Team, Technicians (RM, ET, FC/DS) and Operators (TAO, FADC, ICO, AWC, CSC, TIC/Track Sup, and ID Operator). The Executive Overview is designed for Battle Group Commander, Battle Group Staff, and Commanding/Executive Officers.

Scope: This course provides the requisite knowledge and skills necessary to operate in BG/AOR specific Multi-TADIL environments. Inport topics will be reinforced by live underway Multi-TADIL operations and training.

Prerequisites: Post-FEP, established Battle Group units, operators, and staff.

Support Requirements:
1. Classroom with overhead projector/PowerPoint projection system and VAP. (days 1-3)
2. Dedicated system time: Battle Group-coordinated live TADIL support. (U/W)
3. Student roster to include name, rank/rank and SSN.

Topical Outline:

PART T0038 TACTICAL DIGITAL INFORMATION LINK (TADIL) SYSTEMS
Section 1. Familiarization with TADIL Systems
Topic 1 Executive Overview
Topic 2 Battle Group Capabilities and Limitations
Topic 3 Data Registration (Gridlock) and Correlation
Topic 4 Cooperative Engagement Capability (CEC) Tracking and Composite ID
Topic 5 Battle Group Multi-TADIL Architecture
Topic 6 (Joint) Interface Control Officer
Topic 7 Track Data Coordination (TDC) and Management
Topic 8 Area of Responsibility TADIL Architecture
Topic 9 Underway Training

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CCMM = ATRCD San Diego

Course Title: TRAINING SUPERVISOR AEGIS COMBAT TRAINING SYSTEM (TRASUP) MK 50

CIN/SBIN: S-221-4000 Course Security: SECRET

Location: Exportable (Inport) Length: 5 Days

Periodicity: During Overhaul/SRA or prior to CART II/TSTA, and as requested.

Purpose: Provides selected CIC personnel the knowledge and skills required to perform the duties of a Training Supervisor.

Audience: Selected enlisted CIC Team members (source ratings OS, FC, EW, STG) (E4-E9) or selected officers (maximum class capacity: 6)

Source: Provides AEGIS Console Operators with the skill and knowledge necessary to operate the AEGIS Combat System as it pertains to training. The practical application to support the normal operations of AEGIS Combat Training System (ACTS) and Battle Force Tactical Training System (BFTT) including system interfaces, displays, controls, and indicators.

Prerequisites:
1. AEGIS Console experience
2. Initial BFTT Operations Console (BOPC) Operator Course (for waterfront Detachments courses only).

Support Requirements:
1. Classroom with overhead projector/PowerPoint projection system and VAP. (Day 1.)
2. Dedicated system time: ACTS Computer, BOPC, BFTT Computer, supporting LAUs and OBTs, SPY, WCS, C&D, OBT, AWCS, SQQ-89, SLQ-32, in addition to ACTS MOS and ECGs. (Days 2, 3, 4, & 5)
3. Student roster to include name, rate/rank, SSN, and clearance data.

Topical Outline:

PART T3400/1 AEGIS COMBAT TRAINING SYSTEM (ACTS)
Section 1. Introduction to ACTS MK 50 (B/L 5.0.Z)
Topic 1. General, Functional, Operational, and Documentation Description of ACTS
Topic 2. Physical and Functional Description of ACTS
Topic 3. Interface Description of ACTS
Topic 4. Operational Description of ACTS
Topic 5. Basic Operation of ACTS
Topic 6. Operational Description of Battle Force Tactical Trainer
Topic 7. Basic Operation of Battle Force Tactical Trainer*

*NOTE: Initial BFTT Operator Console (BOPC) operations will not be taught by the waterfront ATRC Detachments. Installation teams, Wallops Island and Non-ATRC agencies will teach basic BOPC operations.

Course Title: TRAINING SUPERVISOR AEGIS COMBAT TRAINING SYSTEM MK 50 (Cont'd)

PART T3400/2 AEGIS COMBAT TRAINING SYSTEM (ACTS)
Section 1. Introduction to AEGIS Combat Training System MK 50 (B/L 6.0 OJ-663)
Topic 1. General, Functional, Operational, and Documentation Description of ACTS
Topic 2. Physical and Functional Description of ACTS
Topic 3. Interface Description of ACTS
Topic 4. Operational Description of ACTS MK 50 System
Topic 5. Basic Operation of ACTS MK 50 System
Topic 6. Operational Description of Battle Force Tactical Trainer
Topic 7. Basic Operation of Battle Force Tactical Trainer*

PART T3400/3 AEGIS COMBAT TRAINING SYSTEM (ACTS)
Section 1. Introduction to ACTS MK 50 (B/L 6.0, OJ-719)
Topic 1. General, Functional, Operational, and Documentation Description of ACTS
Topic 2. Physical and Functional Description of ACTS
Topic 3. Interface Description of ACTS
Topic 4. Operational Description of ACTS MK 50 System
Topic 5. Basic Operation of ACTS MK 50 System
Topic 6. Operational Description of Battle Force Tactical Trainer
Topic 7. Basic Operation of Battle Force Tactical Trainer*

PART T3400/4 AEGIS COMBAT TRAINING SYSTEM (ACTS)
Section 1. Introduction to ACTS MK 50 (B/L 6.3, OJ-719)
Topic 1. General, Functional, Operational, and Documentation Description of ACTS
Topic 2. Physical and Functional Description of ACTS
Topic 3. Interface Description of ACTS
Topic 4. Operational Description of ACTS MK 50 System
Topic 5. Basic Operation of ACTS MK 50 System
Topic 6. Operational Description of Battle Force Tactical Trainer
Topic 7. Basic Operation of Battle Force Tactical Trainer*

*NOTE: Initial BFTT Operator Console (BOPC) operations will not be taught by the waterfront detachments. Installation teams, Wallops Island and Non-ATRC agencies will teach basic BOPC operations)

CCMM = ATRCD Wallops Island

SECTION 3

SPECIALIZED BRIEF

Course Title: COMBAT SYSTEMS OPERATIONAL SEQUENCING SYSTEM (CSOSS) FUNDAMENTALS

CIN/SBIN: T0012-9-04 Course Security: UNCLASSIFIED

Location: Exportable (Inport or Underway) Length: Variable

Periodicity: Pre-commissioning Units, during Overhaul/SRA, 24 Months

Purpose: Provides technical watchteams with introduction/refresher knowledge/skill training in CSOSS concepts, publications, and procedures.

Audience: Technical CSOSS users.

Scope: Course is a prerequisite for CSOSS II. Modules 1, 2, and 3 are presented to Pre-commissioning Units. Modules 1 and 3 are presented to commissioned units (Module 2 is available for commissioned units on request).

Module 1 – Classroom lecture covering Knowledge and Comprehension of CSOSS organization and procedures. 1.5 hour lecture, repeated over two-days for CSOOW/Area Supervisors and Maintenance Personnel. Maximum class size 15. Module 1 is a prerequisite for Modules 2 and 3.
Module 2 – CSOSS Casualty Walk-Through: Provides technical watchstanders basic hands-on in a casualty environment. Emphasis is on the use of CSOSS Space Books and proper reporting/tracking of Combat Systems casualties. CSOOW, Area Supervisor, and equipment space watchstanders are trained on individual casualties during four lab periods. (2 Days)
Module 3 – Combat System Casualty Control Exercises (CSCCE): Provides intermediate hands on training in a non-tactical environment. Drills are executed by CSOOW, Area Supervisor, and equipment space watchstanders manned in Condition III. Two multi–casualty drill sets are executed during a one-day lab.

Prerequisites: Combat Systems Training Team (CSTT) training.

Support Requirements:
1. Student roster to include name, rate/rank, and SSN.
2. Module 1
    a. Classroom with PowerPoint projection system and visual aid panel (VAP)/chalkboard.
3. Module 2
    a. Access to CSMC and various equipment spaces.
    b. Five (5) IVCS Headsets.
    c. Access to Preliminary or Training CSOSS books.
4. Module 3
    a. CSOSS books located in spaces IAW Installation Record.
    b. IVCS headsets located in equipment spaces.

Topical
Outline: PART T0012 AEGIS COMBAT SYSTEM MANAGEMENT
Section 1. AEGIS Combat System Management (CSOSS)
Topic 1. Knowledge and Comprehension of AEGIS Combat System Management Area Supervisor, CSOOW and Maintenance Person

CCMM = ATRCD Norfolk

Course Title: FORCE AIR DEFENSE COMMANDER (SHIPBOARD TRAINING)

CIN/SBIN: T0025-9-01 Course Security: SECRET

Location: Exportable (Inport) Length: 5 Days

Periodicity: After completion of basic training cycle, prior to COMPTUEX

Purpose: Provides CIC watchstanders with the basic knowledge and skills required to function as a Battle Group/Force Air Defense Commander Team. The training will be accomplished onboard AEGIS Class ships using the AEGIS Combat System, ACTS, BFTT, BEWT, EW OBT, AN/SQQ-89 OBT, and simulated/live TADIL and communication circuits.

Audience: Force Air Defense Team including TAO, Force TAO, AAWC, Force AAWC, CSC, TIC, IDS, MSS, AIC, EW, RSC and FADIZ Operator.

Scope: Course will train ship's CIC Condition III watch teams in Battle Group/Force AD procedures, providing the AD team with the requisite knowledge and skills for the ship to function as Battle Group/Force ADC in a multi-threat environment.

Prerequisites:
1. Team members should have basic console operator skills.
2. Required completion of CIC Team Training (Shipboard) S-221-0028

Support Requirements:
1. Classroom with PowerPoint projection system with VAP. (Day 1)
2. Qualified TRASUP to assist trainers for training system initialization.
3. Dedicated system time: SPY, WCS, OBT, AN/SLQ-32( ), ADS, ACTS, BFTT, IFF, simulated TADIL, C&D, 6 dummy R/T Circuits.
4. Student roster to include name, rate/rank, SSN and clearance data.

Topical Outline:

PART T0025	FORCE AIR DEFENSE COMMANDER (FADC)
Section 1.	Force Air Defense Commander
Topic 1.	Air Defense Administration
Topic 2.	Air Defense Concepts
Topic 3.	CV Operations
Topic 4.	Aircraft Capabilities & Limitations
Topic 5.	TADIL Management
Topic 6.	ID Management
Topic 7.	FADIZ
Topic 8.	Joint Force Structure
Topic 9.	TBMD (Currently not taught)
Topic 10.	ATO/SPINS
Section 2.	FADC
Topic 1.	FADC Execution Description
Topic 2.	FADC Execution

CCMM = ATRCD San Diego

Course Title: AEGIS CORE DOCTRINE

CIN/SBIN: T0010-9-01 Course Security: SECRET

Location: Exportable (U/W or Inport) Length: 1 Day

Periodicity: As requested.

Purpose: AEGIS Core Doctrine familiarization.

Audience: CO, XO, TAO, OPS, CSO, WEPS, STO, RSC Operators, AWC, CSC, TIC, and CICWO personnel.

Scope: Course emphasizes the complex human, SPY-1 Radar, and C&D doctrine interaction against various high threat targets. Outlines Doctrine Review Board organization and processes.

Prerequisites: Familiarization with CIC operations during target engagements, utilizing SPY-1 radar and C&D doctrine methodology.

Support Requirements:
1. Classroom with overhead projector/PowerPoint projection system VAP.
2. Classified material storage for overnight storage of publications.
3. Commanding Officer's Doctrine Notebook.
4. Student roster to include name, rate/rank, SSN and clearance data.

Topical Outline:

PART T0010	AEGIS COMBAT SYSTEM
Section 1.	Introduction to and Theory of AEGIS COMBAT SYSTEM Core Doctrine (Tactics)
Topic 1.	Functional and Operational Description of the AEGIS COMBAT SYSTEM SPY Core Doctrine (Tactics)
Topic 2.	Functional and Operational Description of the AEGIS COMBAT SYSTEM C&D Core Doctrine (Tactics)

CCMM = ATRC Dahlgren, Code AN32

Course Title: ACS DATA EXTRACTION/DATA REDUCTION - AEGIS TACTICAL UTILITY FUNCTION (DX/DR-TUF)

CIN/SBIN: T0010-9-08 Course Security: SECRET

Location: Exportable (Inport) Length: 3 Days

Periodicity: Prior to CART II/TSTA/POT&T/PRT&T, and as requested.

Purpose: Provide Computer Central Operators/Technicians with the knowledge to utilize the AEGIS Tactical Executive System (ATES) and Tactical Utility Function (TUF) in support of normal and casualty computer room operations. Provide the knowledge to utilize the Data Recording Function utility to perform and decode octal dumps in support of AEGIS Combat System analysis.

Audience: FC Computer Technicians (NEC 1144) (AN/UYK-43 Computers)

Scope: Course is designed to provide refresher training to fleet units during or after a significant crew changeover or when refresher training is deemed necessary. Training covers the capabilities and limitations of the AEGIS Tactical Executive System and Tactical Utility Function incorporated into the computer program.

Prerequisites: Recommended NEC 1144

Support Requirements:
1. Classroom with overhead projector/PowerPoint projection system and VAP.
2. Dedicated system time (Computer Room) and scratch pack for Tactical Disk Initialization/Restore. C&D, SPY and WCS pre-recorded data tapes.
3. Student roster to include name, rate/rank, SSN and clearance data.

Topical Outline:

PART T0010	AEGIS COMBAT SYSTEM
Section 1.	Introduction to the ACS DXDR-ATES-TUF
Topic 1.	General Description of the ACS DXDR-ATES-TUF
Topic 2.	Documentation Description of the ACS DXDR-ATES-TUF
Section 2.	Introduction to and Basic Operation of the ACS ATES
Topic 1.	General and Functional Description of the ACS ATES
Topic 2.	Operational Description of ACS ATES/DATA RECORDING
Topic 3.	Basic Operation of ACS ATES/DATA RECORDING
Section 3.	Introduction to and Basic Operation of ACS TUF
Topic 1.	General and Functional Description of the ACS TUF
Topic 2.	Operational Description of ACS TUF/DATA REDUCTION
Topic 3.	Basic Operation of ACS TUF/DATA REDUCTION
Section 4.	Introduction to and Basic Operation of ACS PMA
Topic 1.	General, Functional and Operational Description of the ACS PMA
Topic 2.	Basic Operation of ACS PMA

CCMM = ATRCD Mayport

Course Title: COMBAT SYSTEMS TRAINING TEAM (CSTT)

CIN/SBIN: T0040-9-01 Course Security: SECRET

Location: Exportable (Inport) Length: 4/5 Days

Periodicity: During Overhaul/SRA, provided ACS is operational or prior to CART II/TSTA. Note for PRECOM units: CSTT will be taught prior to PRECOM CICTT, and as requested.

Purpose: Provide the CSTT (Tactical and Technical) with the information required to effectively develop and conduct scenario training exercises. Includes CIC and Combat Systems preparation, package development, and evaluation of training evolution's utilizing embedded training devices.

Audience: All Tactical and Technical CSTT members designated in writing IAW COMNAVSURFLANT/PAC 3502.2 Series (Surface Force Training Manual)

Scope: Provide the CSTT with knowledge and practical instruction to include: CSTT duties and responsibilities; training device assets and setup; content/development of scenario exercise packages; briefing, execution, debriefing, and record keeping.

Prerequisites: CSTT personnel designated in writing or under instruction.

Support Requirements:
1. Classroom with overhead projector/PowerPoint projection system and VAP.
2. Student roster to include name, rate/rank and SSN.
3. Dedicated system time for days three through five.
4. Note taking materials for all trainees. Training Guide provided.

Topical Outline:

PART T0040	AEGIS COMBAT SYSTEMS MANAGEMENT
Section 1.	AEGIS Combat Systems Training Team
Topic 1.	Knowledge and Comprehension of AEGIS Combat Systems Training Team (Introduction/Overview)
Topic 2.	Knowledge and Comprehension of AEGIS Combat Systems Training Team (Organization)
Topic 3.	Knowledge and Comprehension of AEGIS Combat Systems Training Team (Available Training Assets)
Topic 4.	Knowledge and Comprehension of AEGIS Combat Systems Training Team (Current Fleet Issues)
Topic 5.	Knowledge and Comprehension of AEGIS Combat Systems Training Team (CSOSS and Casualty Drill Guides)
Topic 6.	Knowledge and Comprehension of AEGIS Combat Systems Training Team (Tactical Scenario Development/Briefing)
Topic 7.	Knowledge and Comprehension of AEGIS Combat Systems Training Team (CSCCE Scenario Development/Briefing)
Topic 8.	Knowledge and Comprehension of AEGIS Combat Systems Training Team (Scenario Execution)
Topic 9.	Knowledge and Comprehension of AEGIS Combat Systems Training Team (Scenario Debriefing)

Course Title: COMBAT SYSTEMS TRAINING TEAM (CSTT) (cont'd)

Topic 10.	Application of the AEGIS Combat Systems Training Team (Scenario Development/Brief)
Topic 11.	Application of the AEGIS Combat Systems Training Team (Scenario Set-Up)
Topic 12.	Application of the AEGIS Combat Systems Training Team (Scenario Brief, Execution and Debrief)

CCMM = ATRCD Yokosuka

Course Title: COMBAT SYSTEMS OPERATIONAL SEQUENCING SYSTEM (CSOSS) STAGE II

CIN/SBIN: T0012-9-02 Course Security: SECRET

Location: Exportable (U/W or Inport) Length: 5 Days

Periodicity: During TSTA, and as requested.

Purpose: Provide the Combat Systems Training Team (Tactical and Technical) the knowledge to develop, plan, brief, execute and debrief a scripted Combat Systems Tactical Exercise (CSTE) utilizing the AEGIS Combat Training System (ACTS) in conjunction with Combat Systems Casualty Control Exercises (CSCCEs). Course includes classroom instruction on the CSOSS organization and procedures to be followed during casualty control training.

Audience: Ships CSTT (Tactical and Technical), Condition III CIC watchstanders, CSOOWs, Area Supervisors, Maintenance Men and CSOSS users.

Scope: Train the ship's CSTT in development and conduct of training packages, evaluation, critiquing and walk-through training on casualty insertion. During Condition III, CIC teams are provided with tactical training, response to casualties and development of communication skills.

Prerequisites:
1. Combat Systems Training Team (CSTT) training.

Support Requirements:
1. Notify ATRCD of any required/missing ACTS scenarios.
2. Classroom with overhead projector/PowerPoint projection system and VAP.
3. Condition III, Two- section watchbill to be provided at inbrief.
4. Dedicated system time: Entire ACS for days two through five.
5. Student roster to include name, rate/rank, SSN and clearance data.

Topical Outline:

PART T0012	AEGIS COMBAT SYSTEMS MANAGEMENT
Section 1.	AEGIS Combat Systems Management
Topic 1.	Knowledge and Comprehension of AEGIS Combat System Maintenance Person
Topic 2.	Knowledge and Comprehension of AEGIS Combat System Management CSOOW/Area Supervisor
Topic 3.	Knowledge and Comprehension of AEGIS Combat System CIC Watchstander
Topic 4.	Knowledge and Comprehension of AEGIS Combat System Battleshort (CG)
Topic 5.	Knowledge and Comprehension of AEGIS Combat System (DDG)
Section 2.	AEGIS Combat Systems Management
Topic 1.	AEGIS Combat Systems Management

CCMM = ATRCD Norfolk

Course Title: AEGIS ELECTRONIC COOLING WATER SYSTEMS

CIN/SBIN: T2305-9-01 Course Security: UNCLASSIFIED

Location: Exportable (Inport) Length: 2 Days

Periodicity: During TSTA, or as requested.

Purpose: Provide Combat Systems technicians with the knowledge required to effectively operate and maintain AEGIS water cooling systems.

Audience: FC, ST and ET personnel responsible for maintenance of the Cooling Skids.

Scope: Introduction to the AEGIS water skids to include: maintenance philosophy, water systems, heat exchanger and pump changeover, operational description of the control panel and lessons learned.

Prerequisites: None

Support Requirements:
1. Classroom with overhead projector/PowerPoint projection system and VAP.
2. Operational Water Skids on day two.
3. Student roster to include name, rate/rank and SSN.

Topical Outline:

PART T2305	AEGIS ELECTRONIC EQUIPMENT WATER COOLER
Section 1.	Theory of the AEGIS Electronic Equipment Water Cooler
Topic 1.	General, Physical and Functional Description of AEGIS Electronic Equipment Water Cooler
Topic 2.	Interface Description of AEGIS Electronic Equipment Water Cooler
Topic 3.	Operational Description of AEGIS Electronic Equipment Water Cooler
Topic 4.	Maintenance Description of AEGIS Electronic Equipment Water Cooler

CCMM = ATRCD Pearl Harbor

Course Title: MK 84 FREQUENCY CONVERTER CABINET OPERATION AND MAINTENANCE

CIN/SBIN: T2301-9-01 Course Security: UNCLASSIFIED

Location: Exportable (Inport) Length: 5 Days

Periodicity: Prior to CART II/TSTA, and as requested.

Purpose: Provide refresher training to the FCS/ORTS Technicians (NEC 1106/1143) on the operation and maintenance of the MK 84 Static Frequency Converter Group. Designed to provide the technician with the knowledge to operate, troubleshoot, repair and maintain the MK 84 Static Frequency Converter (SFC).

Audience: FCS/ORTS Technician (NEC 1106/1143)

Scope: Course is designed to provide refresher training to fleet units during or after a significant crew changeover or when refresher training is deemed necessary. NOTE: This course does NOT support the air-cooled solid state frequency converters.

Prerequisites: None

Support Requirements:
1. Classroom with overhead projector/PowerPoint projection system and VAP.
2. Student roster to include name, rate/rank and SSN.

Topical Outline:

PART T2301	400HZ POWER SUPPLY MK 84
Section 1.	Introduction to and Theory of the 400 HZ Power Supply MK 84
Topic 1.	General, Documentation and Maintenance Description of 400 HZ Power Supply MK 84
Topic 2.	Physical and Functional Description of 400 HZ Power Supply MK 84
Topic 3.	Interface Description of 400 HZ Power Supply MK 84
Topic 4.	Maintenance Description of 400 HZ Power Supply MK 84
PART 2307	400 HZ POWER PROTECTION EQUIPMENT (PPE) MK 205
Section 1.	Introduction to and Theory of the 400 HZ PPE MK 205
Topic 1.	General and Documentation Description of PPE MK 205 Split Bus Controller
Topic 2.	Physical and Functional Description of PPE MK 205 Split Bus Controller
Topic 3.	Functional Description of PPE MK 205 Split Bus Controller
Topic 4.	Interface Description of PPE MK 205 Split Bus Controller
Topic 5.	General and Documentation Description of 400 HZ PPE
Topic 6.	Physical and Functional Description of 400 HZ PPE
Topic 7.	Maintenance Description of 400 HZ PPE

CCMM = ATRCD Mayport

Course Title: AEGIS RADIO COMMUNICATION SYSTEMS TEAM TRAINING (ARCSTT) (Shipboard)

CIN/SBIN: T0028-9-01 Course Security: SECRET

Location: Exportable (U/W or Inport) Length: 5 or 10 Days

Periodicity: During TSTA and as requested.

Purpose: To provide selected Officer and Enlisted personnel with the knowledge and skills required to operate and perform basic corrective maintenance on the AEGIS Radio Communication System (ARCS).

Audience: COMMO, EMO, RMs and ETs (Communications)

Scope: Provide the knowledge and skills required to enable all members of the Radio Communications Team to efficiently operate and conduct basic corrective maintenance on the ARCS under normal, reduced, degraded, and abnormal conditions.

Prerequisites: None

Support Requirements:
1. Classroom with overhead projector/PowerPoint projection system, VCR and VAP.
2. Dedicated system time: ARCS.
3. Student roster to include name, rate/rank, SSN and clearance data.

Topical Outline:

PART T0028 AEGIS RADIO COMMUNICATION SYSTEM MANAGEMENT (ARCS)
Section 1. ARCS Management
Topic 1. Comprehension of (ARCS)
Topic 2. Comprehension of Voice Circuits and Operational Description of ARCS
Topic 3. Application of Voice Circuits
Topic 4. Comprehension of Teletype Circuits
Topic 5. Application of Teletype Circuits
Topic 6. Comprehension of High Data Rate Circuits
Topic 7. Application of High Data Rate Circuits and Performance of ARCS Management

CCMM = ATRCD Pearl Harbor

Course Title: ACS DATA EXTRACTION/DATA REDUCTION - AEGIS TACTICAL UTILITY SYSTEM (DX/DR-ATUS)

CIN/SBIN: T0010-9-10 Course Security: SECRET

Location: Exportable (Inport) Length: 3 Days

Periodicity: Prior to CART II/TSTA/PRT&T, and as requested.

Purpose: Provide Computer Central Operators/Technicians with the knowledge to utilize the AEGIS Tactical Executive System (ATES) and AEGIS Tactical Utility System (ATUS) in support of normal and casualty computer room operations. Provides the knowledge to utilize the Data Recording Function utility to perform and decode recorded data in support of AEGIS Combat System analysis.

Audience: Recommended NEC 1114

Scope: Course is designed to provide refresher training to fleet units during or after a significant crew changeover or when refresher training is deemed necessary. Training covers the capabilities and limitations of the ATES and ATUS incorporated into the computer program.

Prerequisites: None

Support Requirements:
1. Classroom with overhead projector/PowerPoint projection system and VAP.
2. Dedicated system time: Computer Room and scratch pack for Tactical Disk Initialization/Restore.
3. Student roster to include name, rate/rank, SSN and clearance data.

Topical Outline

PART T0010	AEGIS COMBAT SYSTEM (ACS)
Section 1.	Introduction to ACS DXDR-ATES-ATUS
Topic 1.	General and Functional Description of ACS DXDR-ATES-ATUS
Topic 2.	Documentation Description of the ACS DXDR-ATUS-ATES
Topic 3.	Operational Description of the ACS DXDR-ATES
Topic 4.	Operational Description of the ACS DXDR-ATUS
Section 2.	Basic Operation of the ACS DXDR-ATES-ATUS
Topic 1.	Basic Operation of the ACS DXDR-ATES
Topic 2.	Basic Operation of the ACS DXDR-ATUS

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CCMM = ATRCD Mayport

Course Title: AN/SPY-1 (SERIES) RADAR SYSTEM ADVANCED OPERATIONS

CIN/SBIN: T0100-9-04 Course Security: SECRET

Location: Part 1: Exportable (Inport) Length: (Varies)
Part 2: Exportable (Underway)

Periodicity: Prior to CART II/TSTA, and as requested.

Purpose: Part 1: Provides operators with numerous displays of Electronic Attack (EA) and the effects on console displays and target tracking capabilities.
Part 2: Provides one on one instruction during live operation of radar.

Audience: RSC and CSC operator recommended.

Scope: Trains operators on the capabilities and limitations of the AN/SPY-1 Radar in adverse environments. Onboard (Inport) instruction includes showing the effects of EA on the AN/SPY-1 RADAR through the Basic Electronic Environmental Simulator (BEES) Box.

Prerequisites: None

Support Requirements: Part 1:
1. Classroom with overhead projector/PowerPoint projection system and VAP.
2. AN/SPY-1 Radar System operational (not in radiate) for day two and three.
3. Student roster to include name, rate/rank, SSN and clearance data.

Part 2:
1. Underway operation with AN/SPY-1 Radar on-line, radiating and available for trainees to experiment with various settings.

Topical Outline:

PART T0100	RADAR SYSTEM AN/SPY-1 (SERIES)
Section 1.	Introduction to Radar System AN/SPY-1 (Series)
Topic 1.	Operational, Documentation, and Interface Description of Radar System AN/SPY-1 (SERIES)
Topic 2.	Functional Description of Radar System AN/SPY-1 (SERIES) Search Processing
Topic 3.	Functional Description of Radar System AN/SPY-1 (SERIES) Detection Processing
Topic 4.	Functional Description of Radar System AN/SPY-1 (SERIES) Moving Target Indicator (MTI)
Topic 5.	Functional Description of Radar System AN/SPY-1 (SERIES) Track Processing
Section 2.	Operational Description and Operation of the Radar System AN/SPY-1 (SERIES)
Topic 1.	Operational Description of Radar System AN/SPY-1 (SERIES) Loading
Topic 2.	Operational Description of Radar System AN/SPY-1 (SERIES) Control Features
Topic 3.	General Description of Radar System AN/SPY-1 (SERIES) Electronic Attack/Protection

CCMM = ATRCD Norfolk

Course Title: NON-TACTICAL DATA COLLECTION (NTDC) PATCH

CIN/SBIN: T0012-9-05 Course Security: SECRET

Location: Exportable (Inport) Length: 3 Hours

Periodicity: As requested.

Purpose: Familiarization with Non-Tactical Data Collection Patch and associated missions.

Audience: CO, XO, DEPT HEADS, STO, CSMM, TAO, AWC, CSC, RSC, CICO, TIC, and Computer Room personnel.

Scope:
1. Provide overview of NTDC operational mission, history, lessons learned, organization and support.
1. Emphasizes SPY-1 radar, C&D, and ADS. Computer program changes to support detection, tracking, data recording, and display of TBM tracks.

Prerequisites: None

Support Requirements:
1. Classroom with overhead projector/PowerPoint projection system and VAP.
2. Security container for storage of SECRET training material.
3. Student roster to include names, rate/rank, SSN and clearance data.

Topical Outline:

PART T0100	RADAR SYSTEM AN/SPY-1 (Series)
Section 1.	Theory of the Radar System AN/SPY-1 (Series)
Topic 1.	General, Functional, and Operational Description of the Radar System AN/SPY-1 (Series)
Topic 2.	General, Functional, and Operational Description of the Non-Tactical Data Collection (NTDC) Patch
PART T0200	AEGIS COMMAND AND DECISION SYSTEM
Section 1.	Theory of the AEGIS Command and Decision System
Topic 1.	General, Functional, and Operational Description of the Command and Decision System
PART T3300	AEGIS DISPLAY SYSTEM
Section 1.	Introduction to AEGIS Display System
Topic 1.	General, Functional, and Operational Description of the AEGIS Display System

Course Title: EHF SATCOM OPERATOR COURSE

CIN/SBIN: D1678-10-01 Course Security: SECRET

Location: Exportable (U/W or Inport) Length: 5 Days

Periodicity: As requested.

Purpose: Provide selected Officers and Enlisted personnel with the knowledge and skills required to operate the NAVY EHF SATCOM PROGRAM (NESP).

Audience: COMMO, EMO, RMs and ETs (Communications)

Scope: Provide refresher training to enable all members of the Radio Communications Team to efficiently operate the EHF SATCOM system under normal conditions.

Prerequisites: Graduate of ET/RM "A" school and Extremely High Frequency (EHF) SATCOM Program (NESP) Operator Course A-260-0066.

Support Requirements:
1. Classroom with PowerPoint projection system, VCR and VAP/chalkboard.
2. Dedicated system time: EHF System/Ship coordinated live EHF support.
3. Student roster to include name, rate/rank, SSN and clearance data.

Topical Outline:

PART D1678/1	NAVY EHF SATCOM PROGRAM (NESP)
Section 1.	Introduction to NESP
Topic 1.	General and Functional Description of NESP
Topic 2.	Operational Description of NESP
Topic 3.	Operational Description of NESP (Setup and Satellite Acquisition)
Topic 4.	Operational Description of NESP (Establishing Communications)
Topic 5.	Operational Description of NESP (Managing Communications)
PART D1679	COMMUNICATIONS EQUIPMENT GROUP (CEG)
Section 1.	Introduction to Communications Equipment Group (CEG)
Topic 1.	General, Physical, and Functional Description of Communications Equipment Group (CEG)
PART D1680	HIGH POWER AMPLIFIER
Section 1.	Introduction to High Power Amplifier
Topic 1.	General, Physical, and Functional Description of High Power Amplifier
PART D1681	ANTENNA GROUP OE-499, 500, 501/USC-38
Section 1.	Introduction to Antenna Group OE-499, 500, 501/USC-38
Topic 1.	General and Physical Description of Antenna Group OE-499, 500, 501/USC-38 NESP
PART D1678/2	NAVY EHF SATCOM PROGRAM (NESP)
Section 1.	Basic Operation of NESP
Topic 1.	Basic Operation of NESP

CCMM = ATRCD Norfolk

Course Title: AMPHIBIOUS AIR DEFENSE COORDINATOR

CIN/SBIN: T0032-9-01 Course Security: CONFIDENTIAL

Location: Exportable (Inport) Length: 4 Days

Periodicity: After FEP, FADC (Shipboard Training), Prior to COMPTUEX, or as requested.

Purpose: CIC Watchstanders who have received training as CIC operators for AEGIS ships with required knowledge to function as an Amphibious Readiness Group Air Defense ship.

Audience: FADC (Shipboard Training)/TAO and Greencrowns TAO and all AW watchstanders.

Scope: Course will train CIC condition III watch teams in Amphibious Air Defense procedures, providing the AW team with requisite knowledge and skills for the ship to function as Amphibious Readiness Group Air Defense ship in a multi-threat environment.

Prerequisites: Force Air Defense Commander (Shipboard Training), OCI.

Support Requirements:
1. Classroom with overhead projector/PowerPoint projections system and VAP. (Day 1)
2. Dedicated system item: SPY, WCS, OBT, AN/SLQ-32, ADS, ACTS, and C&D.
3. Dummy R/T circuits: TF/TG Command, FAW C&R, SAW C&R, MAD/IAD, AW Intersector Net, TAD net.
4. Student roster to include name, rate/rank, SNN and clearance data.

Topical Outline:

PART T0032	AMPHIBIOUS AIR DEFENSE COORDINATOR
Section 1.	Amphibious Air Defense Knowledge
Topic 1.	Amphibious Air Defense Overview
Topic 2.	Amphibious Aircraft Capabilities and Limitations
Topic 3.	Amphibious Platforms Capabilities and Limitations
Topic 4.	Amphibious Air Space Management
Section 2.	Amphibious Air Defense Application
Topic 1.	Performance of Amphibious Air Defense

CCMM = ATRCD Mayport

Course Title: 400HZ AIR COOLED SOLID STATE FREQUENCY CONVERTER

CIN/SBIN: T2308-9-01 Course Security: UNCLASSIFIED

Location: Exportable (Inport) Length: 5 Days

Periodicity: Prior to CART II/TSTA, and as requested.

Purpose: Provide refresher training to the FCS/ORTS Technicians (NEC 1106/1143) on the operation and maintenance of the MK 84 Static Frequency Converter Group. Designed to provide the technician with the knowledge to operate, troubleshoot, repair and maintain the MK 84 Static Frequency Converter (SFC).

Audience: FCS/ORTS Technician (NEC 1106/1143)

Scope: Course is designed to provide refresher training to fleet units during or after a significant crew changeover or when refresher training is deemed necessary. NOTE: This course does NOT support the Water Cooled Solid State Frequency Converters.

Prerequisites: N/A

Support Requirements:
1. Classroom with overhead projector/PowerPoint projection system and VAP.
2. Student roster to include name, rate/rank and SSN.
3. A minimum of two working ACSSFC (Certified operational in a split bus configuration.

Topical Outline:

PART T2308	400HZ AIR COOLED SOLID STATE FREQUENCY CONVERTER
Section 1.	Theory of the 400HZ Air Cooled Solid State Frequency Converter
Topic 1.	General and Documentation Description of the 400HZ Air Cooled Solid State Frequency Converter
Topic 2.	Physical and Functional Description of the 400HZ Air Cooled Solid State Frequency Converter
Topic 3.	Interface Description of the 400HZ Air Cooled Solid State Frequency Converter
Section 2.	Theory and Operation of the 400HZ Air Cooled Solid State Frequency Converter
Topic 1.	Operational Description of the 400HZ Air Cooled Solid State Frequency Converter
Section 3.	Theory and Maintenance of 400HZ Air Cooled Solid State Frequency Converter
Topic 1.	Maintenance Description of 400HZ Air Cooled Solid State Frequency Converter
Topic 2.	Preventive Maintenance of 400HZ Air Cooled Solid State Frequency Converter
Topic 3.	Basic Corrective Maintenance of the 400HZ Air Cooled Solid State Frequency Converter

Course Title: AN/SPY-1 PERSONAL COMPUTER (PC) APPLICATIONS

CIN/SBIN: T0041-9-01 Course Security: SECRET

Location: Exportable Underway Length: 1 Day

Periodicity: As requested

Purpose: This will provide Radar System Controller (RSC) operators the knowledge and skills to create, modify, and display Dynamic Test Targets (DTT) using personal computer (PC)-based programs: DYNAMIC TEST TARGET GENERATOR, DYNAMIC TEST TARGET DRAW, THEATER BALLISTIC MISSILE GENERATOR, SPY SLIDERULE, EVAPORATIVE DUCT PROGRAM, AND ADVANCED REFRACTIVE EFFECTS PREDICTIONS SYSTEM in order to support normal operations, baseline testing, and tactical planning missions.

Audience: RSC and CSC operator recommended.

Scope: This course was developed with the Radar System Controller (RSC) operator in mind, but is applicable to other operators who need to plan and execute detailed target tracking missions

Prerequisites: NEC 1107/1119/1108/1104.

Support Requirements:
1. Classroom with overhead projector/PowerPoint projection system and VAP.
2. AN/SPY-1 Radar System operational (not in radiate).
3. Student roster to include name, rate/rank, SSN and clearance data.

Topical Outline:

PART T0041 AN/SPY-1 PERSONAL COMPUTER APPLICATIONS

Section 1.	AN/SPY-1 Personal Computer Applications
Topic 1.	General Description of AN/SPY-1 Applications
Topic 2.	Operational Description and Operation of AN/SPY-1 PC Applications Target (DTT) Single Leg
Topic 3.	Operational Description and Operation of AN/SPY-1 PC Applications Dynamic Test Target (DTT) Draw Program
Topic 4.	Operational Description and Operation of AN/SPY-1 PC Applications Theater Ballistic Missile Generator (TBMGEN)
Topic 5.	Operational Description and Operation of AN/SPY-1 PC Applications (SPY TOOLS) Utilities
Topic 6.	Operational Description and Operation of AN/SPY-1 PC Applications (SPY SLIDERULE) Application
Topic 7.	Operational Description and Operation of AN/SPY-1 PC Applications Application (Advanced Refractive Effects Prediction System)

CSMM = ATRCD Yokosuka

Course Title: AEGIS UNIX TRAINING

CIN/SBIN: T0034-9-01 Course Security: SECRET

Location: Exportable Underway Length: 5 Days

Periodicity: As requested

Purpose: This will provide an understanding of the knowledge required to perform all tasks/function skills on the UNIX OPERATING SYSTEM. This specialized brief will describe the theory and associated documentation to understand the performance of normal operational tasks with the AEGIS Combat System to include the AEGIS Operational Readiness Test System (ORTS), Shipboard Gridlock System (SGS), Advanced Display System Console OJ-720(V)UYQ-70(V) and associated components.

Audience: AEGIS Computer (NEC 1143) and Display (NEC 1335) personnel recommended.

Scope: This course was developed with the intent to support networking validity and maintenance of UNIX based LANS. The course includes networking standards, protocols, and the UNIX operating system and its tools to support casualty maintenance of the AWS LAN and its associated interfaces.

Prerequisites: NEC 1143/1119/1108/1104/1118/1335

Support Requirements:
1. Classroom with overhead projector/PowerPoint projection system and VAP.
2. Dedicated system time: C&D and ADS.
3. Student roster to include name, rate/rank, SSN and clearance data.

Topical Outline:

PART T0034	AEGIS UNIX Training
Section 1.	Introduction and Operation of the UNIX Operating System
Topic 1.	General, Functional, Operational, and Documentation Description of UNIX Operating System
Topic 2.	Performance of UNIX Operating System
Section 2.	Introduction and Operation of UNIX Operating System
Topic 1.	Functional and Operational Description of UNIX Operating System
Topic 2.	Performance of UNIX Operating System
Topic 3.	Interface Description of UNIX Operating System
Topic 3.	Maintenance Description of UNIX Operating System
Topic 4.	Performance of UNIX Operating System

CSMM = ATRCD Mayport

Course Title: AEGIS COMMON DATA LINK MANAGEMENT SYSTEM (CDLMS) OPERATION AND MAINTENANCE

CIN/SBIN: T0227-9-01 Course Security: SECRET

Location: Exportable Underway Length: 5 Days

Periodicity: As requested

Purpose: This will provide an understanding of the knowledge required to operate and maintain the Common Data Link Management System. This specialized brief will describe the theory and associated documentation to understand the performance of normal operational and maintenance tasks with the AEGIS Combat System.

Audience: AEGIS Computer (NEC 1143) and Display (NEC 1335) personnel recommended.

Scope: This course was developed with the intent to support the tasks involved in CDLMS setup, initialization, JTIDS operation, data extraction and corrective maintenance of the system and its' consoles.

Prerequisites: NEC 1143/1119/1108/1104/1118/1335

Support Requirements:
1. Classroom with overhead projector/PowerPoint projection system and VAP.
2. Dedicated system time: C&D, ADS, EXCOM
3. Student roster to include name, rate/rank, SSN and clearance data.

Topical Outline:

PART T0227-9-01 COMMON DATA LINK MANAGEMENT SYSTEM (CDLMS)
- Section 1. CDLMS
  - Topic 1. Introduction and Theory of the CDLMS
  - Topic 2. Physical and Functional Description of the CDLMS
  - Topic 3. Interface Description of the CDLMS
- Section 2. Introduction and Theory of the CDLMS
  - Topic 1. Operational Description of CDLMS
  - Topic 2. Operation of CDLMS
- Section 3. Introduction, Theory and Maintenance of the CDLMS
  - Topic 1. Maintenance Description of CDLMS
  - Topic 2. Preventive Maintenance of CDLMS
  - Topic 3. Basic Corrective Maintenance of CDLMS

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CSMM = ATRCD Mayport

Course Title: AIR DEFENSE PLANNING

CIN/SBIN: T0025-9-02 Course Security: SECRET

Location: Exportable Inport Length: 1 Day

Periodicity: As requested

Purpose: This will provide training to senior Battle Group Air Defense Planners the required knowledge and resources to execute the duties as Air Defense Commander.

Audience: Senior Battle Group Staff and shipboard Air Defense Planners.

Scope: This course was developed to train Senior Battle Group Staff Air Defense Planners the required knowledge and resources to execute the duties as Air Defense Commander.

Prerequisites: None

Support Requirements:
1. Classroom with overhead projector/PowerPoint projection system and VAP.
2. Student roster to include name, rate/rank, SSN and clearance data.

Topical Outline:

PART T0025	AIR DEFENSE PLANNING (ADP)
Section 1.	ADP for Force Air Defense Commander (FADC)
Topic 1.	ADP Duties and Responsibilities
Topic 2.	Air Defense Plan
Topic 3.	TADIL Considerations
Topic 4.	Identification Considerations
Topic 5.	ADP Notional Timeline/Wrap-up
Section 2.	ADP Execution for FADC
Topic 1.	ADP Execution

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CSMM = ATRCD San Diego

Course Title: TUF/X UTILITIES

CIN/SBIN: T0010-9-11 Course Security: SECRET

Location: Exportable Underway Length: 1 Day

Periodicity: As requested

Purpose: Provide AEGIS Computer Network Technicians and supervisors with the knowledge to utilize TUF/X Utilities in support of normal and casualty operations.

Audience: NEC 1104/1105/1335

Scope: This will provide training to provide a method of easily performing routine administrative tasks listed below:

- Synchronizing system date and time,
- Mounting and dismounting removable devices,
- Formatting optical disks,
- Selecting compact disk changer compact disks,
- Backing up and restoring operator-entered files,
- Viewing and killing selected application processes,
- Rebooting adjunct processors and consoles,
- Updating the Airway database,
- Back up log files

Prerequisites: None

Support Requirements:

1. Classroom with overhead projector/PowerPoint projection system and VAP.
2. Dedicated system time: AEGIS Combat System and ORTS TMCL console, and LITT laptop computer.
3. Student roster to include name, rate/rank, SSN and clearance data.

Topical Outline:

PART T0010	AEGIS Combat System Tactical Utilities Function (TUF/X)
Section 1.	Theory of the AEGIS Combat System TUF/X Utilities
Topic 1.	General and Maintenance Description of the AEGIS Combat System TUF/X Utilities
Topic 2.	Basic Corrective Maintenance Description of the AEGIS Combat System TUF/X Utilities

CSMM = ATRC Dahlgren (N34)

SECTION 4

Responsive Training

Course Title: ATRCD RESPONSIVE TRAINING

CIN/SBIN: S-920-0006 Operation
S-920-0007 Maintenance

Course Security: Up to SECRET

Location: Exportable

Length: Variable

Periodicity: As requested.

Purpose: Provides the ship specific, flexible training not covered by the formal training offered in this catalog. Briefs available, not all inclusive:

1. Introduction and How to Use your Interactive Electronic Training Manuals
2. CPR Qualification
3. Training Officer Overview/Indoctrination
4. Disclosure/Releaseability Brief
5. SM-2 Performance

Audience: Officer and Enlisted personnel.

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Scope: All facets of the AEGIS Combat System and its operation.

Prerequisites: None

Support Requirements:
1. Training Devices: Various
2. Support Equipment or Publications Required: Various

AEGIS TRAINING AND READINESS CENTER DETACHMENTS

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